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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,249	01/04/2002	James Michael Fogarty	839-1159	4547

7590 10/16/2002
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EXAMINER

LAM, THANH

ART UNIT PAPER NUMBER

2834

DATE MAILED: 10/16/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
10/035,249

Applicant(s)
Fogarty

Examiner
Thanh Lam

Art Unit
2834



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Jul 19, 2002
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-13 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 13 is/are allowed.
- 6) ☒ Claim(s) 8-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on Jan 4, 2002 is/are a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 6) ☐ Other:

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "mid-winding" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the phrase "mid-winding" should be enclosed in the specification.

Claim Objections

3. Claim 13 is objected to because of the following informalities: the claim 13 fails to provide a period at the end of the claim. Appropriate correction is required.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 8-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakamura et al. Nakamura et al. (See fig. 10A) disclose a method for connecting armature windings in an electrical machine, wherein the armature windings include a plurality of phase windings, said method comprising:

a. segmenting each of the plurality of phase windings (X,Y,Z) into a first winding segment (C2) and a second winding segment (C1) by establishing a connection point at one of a plurality of available mid-winding connection points (W1 and V1 or W1 and U1) on said phase winding (Y);

b. at the established mid-winding connection point (V1), connecting an end of the first winding segment (C2) in each phase winding to an end of the first winding segment (C2) in another of said phase windings to form a Delta winding topology (col. 11, lines 25-32), and

c. at the established mid-winding connection point, connecting a first end of one of said second winding segments to a plurality of connected ends of said each of said first winding segments to form a Wye topology (C1 of X,Y,Z) about each mid-winding connection point.

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Regarding claim 9. Nakamura et al. disclose the available mid-winding connection points are at different end turns of the phase winding, and the established connection point is a contact tap at a selected end turn of the phase winding.

Regarding claim 10. Nakamura et al. disclose the first and second winding segments are in-phase.

Regarding claim 11. Nakamura et al. disclose an opposite end of said second winding segment is connected to an external terminal of said windings.

Regarding claim 12. Nakamura et al. disclose said plurality of phase windings include three phase windings, and each of said three phase windings has a plurality of established mid-winding connection points, and further comprising forming an external connection at an opposite end of each of the second winding segments to establish a three-phase power connection to the phase windings.

Allowable Subject Matter

6. Claim 13 is allowed over cited art.

Response to Arguments

7. Applicant's arguments filed 7/19/2002 have been fully considered but they are not persuasive.

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In response to applicant's argument that Nakamura does not disclose "segmenting each of the plurality of phase windings into a first winding segment and a second winding segment by establishing a connection point at one of a plurality of available mid-winding connection points on said phase winding" as cited in claim 8.

Examiner submits that Nakamura et al. disclose segmenting each of the plurality of phase windings (X,Y,Z) into a first winding segment (C2) and a second winding segment (C1) by establishing a connection point at one of a plurality of available mid-winding connection points (W1 and V1 or W1 and U1) on said phase winding (Y).

In response to applicant's argument that Nakamura does not disclose "the available mid-winding connection points are at different end turns of the phase winding" as cited in claim 9.

Examiner submits that Nakamura et al. disclose the available mid-winding connection points (W1 and V1 or W1 and U1) are at different end turns (the winding 2T or c2 has two end turns one connected to W1 and the other connected to V1) of the phase winding.

In response to applicant's argument that Nakamura does not disclose " an opposite end of said second winding segment is connected to an external terminal of said windings" as cited in claim 11.

Examiner submits that Nakamura et al. disclose an opposite end of said second winding segment is connected to an external terminal (where Y connected to) of said windings.

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Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The fax phone number for this Group is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0656.


Thanh Lam

Patent Examiner